

Amendments to the Claims

The Claim Listing below replaces all prior versions of the claims in the subject application.

Claim Listing:

Claim 1 (currently amended): A method comprising:

issuing a read request to request reading of at least one portion of data stored in a first storage device;

issuing a write request to request writing of the at least one portion of the data into one of a second storage device and at least one location in the first storage device, the at least one location being comprised in a volume of a redundant array of inexpensive disks (RAID), the data being stored in a non-RAID volume in the first storage device; and

in response, at least in part, to a request to access one or more other portions of the data stored in the non-RAID volume at least one of received and issued by one or more operating system processes while at least one of the reading and the writing is occurring, issuing an access request to request accessing of the one or more other

portions of the data and accessing the one or more other portions of the data while the at least one of the reading and the writing is occurring;

after the writing, issuing a storage request to request storing in the first storage device and in the second storage device of an indication, at least in part, of at least one other portion of the data to be next read; and

issuing another storage request to request storage in the first storage device and in the second storage device of configuration information indicating, at least in part, parameters of the non-RAID volume and of the RAID volume.

Claim 2 (Cancelled).

Claim 3 (previously presented): The method of claim 1, further comprising:

issuing a storage request to request storing, in a third storage device, of check data generated, based at least at in part upon the at least one portion of the data.

Claim 4 (original): The method of claim 3, wherein:

the check data comprises parity data.

Claim 5 (original): The method of claim 1, wherein:

the first storage device and the second storage device comprise one or more mass storage devices.

Claim 6 (cancelled).

Claim 7 (cancelled).

Claim 8 (original): The method of claim 1, wherein:

a part of the at least one portion of the data is stored in the at least one location;
and

the method further comprises, prior to the writing, issuing a storage request to request storing of the at least one portion of the data in at least one other location in the first storage device.

Claim 9 (currently amended): An apparatus comprising:

circuitry capable of:

issuing a read request to request reading of at least one portion of data stored in a first storage device;

issuing a write request to request writing of the at least one portion of the data into one of a second storage device and at least one location in the first storage device,

the at least one location being comprised in a volume of a redundant array of inexpensive disks (RAID), the data being stored in a non-RAID volume in the first storage device; and

in response, at least in part, to a request to access one or more other portions of the data stored in the non-RAID volume at least one of received and issued by one or more operating system processes while at least one of the reading and the writing is occurring, issuing an access request to request accessing of the one or more other portions of the data and accessing the one or more other portions of the data while the at least one of the reading and the writing is occurring;

after the writing, issuing a storage request to request storing in the first storage device and in the second storage device of an indication, at least in part, of at least one other portion of the data to be next read; and

issuing another storage request to request storage in the first storage device and in the second storage device of configuration information indicating, at least in part, parameters of the non-RAID volume and of the RAID volume.

Claim 10 (cancelled).

Claim 11 (previously presented): The apparatus of claim 9, wherein:

the circuitry is also capable of issuing a storage request to request storing, in a third storage device, of check data generated, based at least at in part upon the at least one portion of the data.

Claim 12 (original): The apparatus of claim 11, wherein:

the check data comprises parity data.

Claim 13 (original): The apparatus of claim 9, wherein:

the first storage device and the second storage device comprise one or more mass storage devices.

Claim 14 (cancelled).

Claim 15 (cancelled).

Claim 16 (original): The apparatus of claim 9, wherein:

a part of the at least one portion of the data is stored in the at least one location;
and

the circuitry is also capable of, prior to the writing, issuing a storage request to request storing of the at least one portion of the data in at least one other location in the first storage device.

Claim 17 (currently amended): An article comprising:

a storage medium having stored therein instructions that when executed by a machine result in the following:

issuing a read request to request reading of at least one portion of data stored in a first storage device;

issuing a write request to request writing of the at least one portion of the data into one of a second storage device and at least one location in the first storage device, the at least one location being comprised in a volume of a redundant array of inexpensive disks (RAID), the data being stored in a non-RAID volume in the first storage device; and

in response, at least in part, to a request to access one or more other portions of the data stored in the non-RAID volume at least one of received and issued by one or more operating system processes while at least one of the reading and the writing is occurring, issuing an access request to request accessing of the one or more other portions of the data and accessing the one or more other portions of the data while the at least one of the reading and the writing is occurring;

after the writing, issuing a storage request to request storing in the first storage device and in the second storage device of an indication, at least in part, of at least one other portion of the data to be next read; and

issuing another storage request to request storage in the first storage device and in the second storage device of configuration information indicating, at least in part, parameters of the non-RAID volume and of the RAID volume.

Claim 18 (cancelled).

Claim 19 (previously presented): The article of claim 17, wherein the instructions when executed also result in:

issuing a storage request to request storing, in a third storage device, of check data generated, based at least at in part upon the at least one portion of the data.

Claim 20 (original): The article of claim 19, wherein:

the check data comprises parity data.

Claim 21 (original): The article of claim 17, wherein:

the first storage device and the second storage device comprise one or more mass storage devices.

Claim 22 (cancelled).

Claim 23 (cancelled).

Claim 24 (original): The article of claim 17, wherein:

a part of the at least one portion of the data is stored in the at least one location;
and

the instructions when executed by the machine also result in, prior to the
writing, issuing a storage request to request storing of the at least one portion of the data
in at least one other location in the first storage device.

Claim 25 (currently amended): A system comprising:

a circuit board comprising read only memory (ROM) to store instructions; and
circuitry capable of executing the instructions, execution of the instructions by
the circuitry resulting in:

issuing a read request to request reading of at least one portion of data stored in
a first storage device;

issuing a write request to request writing of the at least one portion of the data into one of a second storage device and at least one location in the first storage device, the at least one location being comprised in a volume of a redundant array of inexpensive disks (RAID), the data being stored in a non-RAID volume in the first storage device; and

in response, at least in part, to a request to access one or more other portions of the data stored in the non-RAID volume at least one of received and issued by one or more operating system processes while at least one of the reading and the writing is occurring, issuing an access request to request accessing of the one or more other portions of the data while at least one of the reading and the writing is occurring;

after the writing, issuing a storage request to request storing in the first storage device and in the second storage device of an indication, at least in part, of at least one other portion of the data to be next read; and

issuing another storage request to request storage in the first storage device and in the second storage device of configuration information indicating, at least in part, parameters of the non-RAID volume and of the RAID volume.

Claim 26 (cancelled).

Claim 27 (previously presented): The system of claim 26, wherein:

the circuit board also comprises a chipset coupled to the processor and to the ROM.

Claim 28 (original): The system of claim 27, wherein:

the circuit board also comprises a bus and a circuit card slot coupled to the bus, the slot being coupled to the processor via the chipset.

Claim 29 (original): The system of claim 25, wherein:

the instructions are comprised in basic input/output system (BIOS) instructions stored in the ROM.

Please add the following new claims 30 to 33:

-- 30 (New): The method of claim 1, wherein:

the RAID configuration information permits, at least in part, determination of at least one of storage device failure-related information and volume failure-related information.

31 (New): The apparatus of claim 9, wherein:

the RAID configuration information permits, at least in part, determination of at least one of storage device failure-related information and volume failure-related information.

32 (New): The article of claim 17, wherein:

the RAID configuration information permits, at least in part, determination of at least one of storage device failure-related information and volume failure-related information.

33 (New): The system of claim 25, wherein:

the RAID configuration information permits, at least in part, determination of at least one of storage device failure-related information and volume failure-related information. --